

Paper List

January – December, 2023

- E2023-1(F) Accelerated germination of aged recalcitrant seeds by K⁺-rich bulk oxygen nanobubbles
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Mijung Kim, Akio Shoji, Toshiaki Kobayashi, Yasuyuki Shirai, Shigetoshi Sugawa and Masayoshi Takahashi
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- E2023-2(C) Excimer laser doping for the fabrication of 4H-SiC power devices
Proceedings Volume 12408, Laser Applications in Microelectronic and Optoelectronic Manufacturing (LAMOM) XXVIII; 124080M (2023), 17 March 2023, San Francisco Yoshiaki Kakimoto, Keita Katayama, Takuma Yasunami, Tetsuya Goto, Daisuke Nakamura, Hiroshi Ikenoue
<https://doi.org/10.1117/12.2651419>
- E2023-3(F) Oxygen nanobubble water affects wound healing of fibroblast WI-38 cells
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Neng Tanty Sofyana, Redoyan Refli, Masayoshi Takahashi, Kazuichi Sakamoto
<https://doi.org/10.1093/bbb/zbad026>
- E2023-4(C) Light intensity and charge holding time dependence of pinned photodiode full well capacity
International Image Sensor Workshop (IISW) Proceedings, R3.4, Scotland, UK, (2023), 22 May 2023.
Ken Miyauchi, Toshiyuki Isozaki, Rimon Ikeno, Junichi Nakamura
<https://doi.org/10.60928/dyb9-wzkr>
- E2023-5(C) A Half-Pulse 2-Tap Indirect Time-of-Flight Ranging Method with Sub-Frame Operation for Depth Precision Enhancement and Motion Artifact Suppression
International Image Sensor Workshop (IISW) Proceedings, R9.1, Scotland, UK, (2023), 25 May 2023.
Chia-Chi Kuo, Rihito Kuroda
<https://doi.org/10.60928/ccsi-uy9e>
- E2023-6(C) A 134 × 132 4-Tap CMOS Indirect Time-of-Flight Range Imager Using In-Pixel Memory Array With 10 Kfps High-Speed Mode and High Precision Mode
IEEE Journal Solid-State Circuits, 15 June. (2023)
Chia-Chi Kuo, Rihito Kuroda
<https://doi.org/10.1109/JSSC.2023.3281610>

- E2023-7(F) A 2-Tap 4-Phase Indirect Time-of-Flight Ranging Method using Half-Pulse Modulation for Depth Precision Enhancement and Sub-Frame Operation for Motion Artifact Suppression
ITE Transactions on Media Technology and Applications, (2023), Vol.11, Issue 3, pp.123-129, 1 July 2023.
Chia-Chi Kuo, Rihito Kuroda
<https://doi.org/10.3169/mta.11.123>
- E2023-8(C) Characterization of MONOS-Type Polycrystalline Silicon Thin Film Transistors
2023 Asia-Pacific Workshop on Fundamentals and Applications of advanced Semiconductor Devices (AWAD), P-4, (2023), Yokohama, 11 July,2023.
Tetsuya Goto, Tomoyuki Suwa, Keita Katayama, Shu Nishida, Hiroshi Ikenoue, Shigetoshi Sugawa
- [E2023-9\(W\)](#) [Invited]
Next Generation FPD with UV-Micro LED's
LED Forum 2023 MicroLED: Metaverse X Technological Evolution X Application Innovation, Taipei, (2023), 5 September 2023.
Koichi Kajiyama
- [E2023-10\(C\)](#) Threshold Voltage Control of LTPS TFTs with MONOS Structure
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Tetsuya Goto, Tomoyuki Suwa, Keita Katayama, Shu Nishida, Hiroshi Ikenoue, and Shigetoshi Sugawa
- [E2023-11\(C\)](#) Eco-Friendly SPM Alternative Resist Stripping with High-Concentration O₃-Water Technology
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Takayuki Jizaimaru, Takao Funakoshi, Takeshi Sakai, Hisashi Fujimoto, Yasuyuki Shirai
<https://doi.org/10.4028/p-jJtPk0>
- [E2023-12\(W\)](#) [Invited]
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- [E2023-13\(W\)](#) A Half-Pulse 2-Tap Indirect Time-of-Flight Ranging Method with Sub-Frame Operation for Depth Precision Enhancement and Motion Artifact Suppression/
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を用いたハーフパルス 2 タップ間接 Time-of-Flight 測距法
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- E2023-14(F) Mineralization of Poly(vinyl alcohol) by Ozone Microbubbles under a Wide
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- E2023-15(F) Analysis of Light Intensity and Charge Holding Time Dependence of Pinned
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MDPI Sensors, Vol.23, No.21, pp.8847, (2023), October
Ken Miyauchi, Toshiyuki Isozaki, Rimon Ikeno, Junichi Nakamura
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- E2023-16(W) Measurement of TEMAZ concentration in process chamber by UV absorption
method
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Takafumi Inada, Yushi Sakai, Akihito Suto, Tatsuo Morimoto, Tomoyuki Suwa,
Yasuyuki Shirai, Shigetoshi Sugawa, and Rihito Kuroda
- E2023-17(W) Impedance Measurement Platform Technology Toward Statistical Evaluation of
Semiconductor Devices
The 35th International Microelectronics Conference, (2023), pp.33-39,
November 11, Sendai
Koga Saito, Tatsuhiko Suzuki, Hidemi Mitsuda, Takezo Mawaki, Tomoyuki
Suwa, Akinobu Teramoto, Shigetoshi Sugawa, and Rihito Kuroda
- E2023-18(W) Small Size, Low Power, and High Performance CMOS Image Sensors Using
Pixel Level Stacking Technolog
The 35th International Microelectronics Conference, (2023), pp.41-44,
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- E2023-19(F) Visualization and Analysis of Temporal and Steady-State Gas Concentration in Process Chamber Using 70-dB SNR 1000 fps Absorption Imaging System
IEEE Transactions on Semiconductor Manufacturing, Vol.36, Issue: 4, pp. 515-519, (2023), November 2023
Yushi Sakai, Yoshinobu Shiba, Takafumi Inada, Tetsuya Goto, Tomoyuki Suwa, Tetsu Oikawa, Aoi Hamaya, Akihito Sutoh, Tatsuo Morimoto, Yasuyuki Shirai, Shigetoshi Sugawa, and Rihito Kuroda
<https://doi.org/10.1109/TSM.2023.3267024>
- E2023-20(C) [KeynoteAddress]
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Rihito Kuroda
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- E2023-21(C) A Preliminary Demonstration of High Resolution Proximity Capacitance-Optical Multimodal CMOS Image Sensor
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Tsubasa Nozaki, Yoshiaki Watanabe, Chia-Chi Kuo, Koga Saito, Takezo Mawaki, Rihito Kuroda
<https://doi.org/10.36463/idw.2023.1471>
- E2023-22(F) Microstructural Study on Dissolution of Natural Methane Hydrate by Multicontrast and Multiscale X-ray Computed Tomography
The Journal of Physical Chemistry C, Vol.127, Issue 49, pp.23973–23979, (2023), December 5.
Satoshi Takeya, Akihiro Hachikubo, Hirotoishi Sakagami, Hirotosugu Minami, Satoshi Yamashita, Masayoshi Takahashi, Keiichi Hirano, Kazuyuki Hyodo, and Akio Yoneyama
<https://doi.org/10.1021/acs.jpcc.3c06655>